1. Record Nr. UNINA9910786835203321

Titolo	Key elements in polymers for engineers and chemists : from data to applications / / edited by Alexandr A. Berlin, DSc, Viktor F. Kablov, DSc, Andrey A. Pimerzin, DSc, and Simon S. Zlotsky, PhD ; Gennady E. Zaikov, DSc, and A.K. Haghi, PhD, revie
Pubbl/distr/stampa	Waretown, N.J. : , : Apple Academic Press, Inc., , [2014] ©2014
ISBN	0-429-17218-4 1-4822-3098-4
Edizione	[First edition.]
Descrizione fisica	1 online resource (444 p.)
Disciplina	547.7 547/.7
Soggetti	Polymerization - Data processing Polymers - Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; About The Editors; Reviewers And Advisory Board Members; Contents; List Of Contributors; List Of Abbreviations; Preface; Chapter 1 Raft-polymerization Of Styrene-kinetics And Mechanism; Chapter 2 A Detailed Review On Pore Structure Analysis Of Electrospun Porous Membranes; Chapter 3 Experimental Techniques For Application Of Recycled Polymers In Construction Industries; Chapter 4 Nanocomposites Polyethylene/organoclay On Suprasegmental Level; Chapter 5 Quantum And Wave Characteristics Of Spatial Energy Interactions Chapter 6 Key Elements On Nanopolymers-from Nanotubes To NanofibersChapter 7 Polyacetylene; Chapter 8 Features Of Macromolecule Formation By Raft-polymerization Of Styrene In The Presence Of Trithiocarbonates; Chapter 9 A Study On Physical Properties Of Composites Based On Epoxyresin; Chapter 10 Synthesis, Structural Properties, Development And Applications Of Metal-organic Frameworks In Textile; Chapter 11 Thermal Behavior And Ionic Conductivity Of The Peo/pacand Peo/pac Blends; Chapter 12

	Correlation Between The Storage Time Of The Nrl and The Efficiency Of Pmma Grafting To Nr Chapter 13 A Study On Composite Polymer ElectrolyteChapter 14 A Study On Solid Polymer Electrolytes; Chapter 15 Modification Of Pc-phbh Blend Monolith; Back Cover
Sommario/riassunto	This book provides comprehensive coverage on the latest developments of research in the ever-expanding area of polymers and advanced materials and their applications to broad scientific fields including physics, chemistry, biology, and materials. It presents physical principles in explaining and rationalizing polymeric phenomena. Featuring classical topics that are conventionally considered as part of chemical technology, the book covers the chemical principles from a modern point of view. It analyzes theories to formulate and prove the polymer principles and offers future outlooks on appli

2.

Record Nr.	UNINA9911019868003321
Autore	Welker R. W
Titolo	Contamination and ESD control in high-technology manufacturing / / Roger W. Welker, R. Nagarajan, Carl E. Newberg
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley & Sons, : IEEE Press, c2006
ISBN	9786610549788 9781280549786 1280549785 9780470007785 0470007788 9780470007778 047000777X
Descrizione fisica	1 online resource (516 p.)
Altri autori (Persone)	NagarajanR (Ramamurthy) NewbergCarl E
Disciplina	670.42
Soggetti	Electronic apparatus and appliances - Protection Electric discharges Electrostatics Contamination (Technology) Clean rooms
Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fundamentals of contamination control -- Fundamentals of ESD control -- Sampling and analysis methods -- Facilities design : contamination- and ESD-safe work areas -- Getting clean parts and getting parts clean -- Tooling design and certification -- Continuous monitoring -- Consumable supplies and packaging materials -- Controlling contamination and ESD from people -- Layout of change rooms -- Procedures and documentation.
Sommario/riassunto	A practical "how to" guide that effectively deals with the control of both contamination and ESD This book offers effective strategies and techniques for contamination and electrostatic discharge (ESD) control that can be implemented in a wide range of high-technology industries, including semiconductor, disk drive, aerospace, pharmaceutical, medical device, automobile, and food production manufacturing. The authors set forth a new and innovative methodology that can manage both contamination and ESD, often considered to be mutually exclusive challenges requiring distinct strategies. Beginning with two general chapters on the fundamentals of contamination and ESD control, the book presents a logical progression of topics that collectively build the necessary skills and knowledge: . Analysis methods for solving contamination and ESD problems. Building the contamination and ESD control environment, including design and construction of cleanrooms and ESD protected environments. Cleaning processes and the equipment needed to support these processes. Tooling design and certification. Continuous monitoring. Consumable supplies and packaging materials. Controlling contamination and ESD originating from people. Management of cleanrooms and ESD protected workplace environments Contamination and ESD Control in High-Technology Manufacturing conveys a practical, working knowledge of contamination and ESD control strategies and techniques, and it is filled with case studies that illustrate key principles and the benefits of contamination and ESD control. Moreover, its straightforward style makes the material, which integrates many disciplines of engineering and science, clear and accessible. Written by three leading industry experts, this book is an essential guide for engineers and designers across the many industries where contamination and ESD control is a concern.